

Date of issue: 2017/11/10 Date of revision: 2021/07/15

# Safety Data Sheet

. Identification of the substance/mixture and of the company/undertaking	
Product identifier:	
Product name: Anthracene	
SDS No. : 0513E-2	
Details of the supplier of the safety data sheet	
Manufacturer/Supplier: KISHIDA CHEMICAL CO., LTD.	
Address: 3–1, Honmachibashi, Chuo-ku,Osaka ,JAPAN	
Division: Safety Management Dept. of Chemicals	
Telephone number: +81-6-6946-8061 FAX: +81-6-6946-1607	
e-mail address: kagakuhinanzenkanri@kishida.co.jp	
. Hazards identification	
GHS classification and label elements of the product	
Classification of the substance or mixture	
HEALTH HAZARDS	
Serious eye damage/eye irritation: Category 2	
Skin sensitization: Category 1	
Carcinogenicity: Category 1B	
Specific target organ toxicity - single exposure: Category 3 (Respiratory tract irritation)	tion)
ENVIRONMENT HAZARDS	
Hazardous to the aquatic environment (Acute): Category 1	
Hazardous to the aquatic environment (Long-term): Category 1	
Label elements	
Label elements	
Label elements	
Signal word: Danger	
Signal word: Danger HAZARD STATEMENT	
Signal word: Danger HAZARD STATEMENT Causes serious eye irritation	
Signal word: Danger HAZARD STATEMENT Causes serious eye irritation May cause an allergic skin reaction	
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IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. Storage Store in a well-ventilated place. Keep container tightly closed. Disposal Dispose of contents/container in accordance with local/national regulation.

### 3. Composition/information on ingredients

Mixture/Substance selection:

Substance Ingredient name:Anthracene Content (%):90(min) Chemical formula:C14H10 Chemicals No, Japan:4-683 CAS No.:120-12-7 MW:178.23 ECNO:204-371-1 Note : The figures shown above are not the specifications of the product.

## 4. First-aid measures

Descriptions of first-aid measures General measures IF exposed or concerned: Get medical advice/attention. Call a POISON CENTER/doctor/physician if you feel unwell. IF INHALED Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor/physician if you feel unwell. IF ON SKIN (or hair) Take off immediately all contaminated clothing. Rinse skin with water or shower. Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. IF IN EYES Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. IF SWALLOWED Rinse mouth. Call a POISON CENTER/doctor/physician if you feel unwell. 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media

Use appropriate extinguishing media suitable for surrounding facilities.

Unsuitable extinguishing media

Unsuitable extinguishing media data is not available.

Specific hazards arising from the substance or mixture



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Containers may explode when heated. Fire may produce irritating, corrosive and/or toxic gases.
Advice for firefighters
Specific fire-fighting measures
Evacuate non-essential personnel to safe area.
Special protective equipment and precautions for fire-fighters
Wear fire resistant or flame retardant clothing. Wear protective gloves/protective clothing/eye protection/face protection. Firefighters should wear self-contained breathing apparatus with full face peace operated positive pressure mode.
6. Accidental release measures
Personnel precautions, protective equipment and emergency procedures
Ventilate area until material pick up is complete. Wear proper protective equipment.
Environmental precautions

Prevent spills from entering sewers, watercourses or low areas.

Avoid raising dust.

Methods and materials for containment and cleaning up

Sweep up, place in a bag and hold for waste disposal.

Preventive measures for secondary accident

Collect spillage.

## 7. Handling and storage

## Precautions for safe handling

## Preventive measures

(Exposure Control for handling personnel)

Avoid breathing dust/fume/gas/mist/vapors/spray.

### (Protective measures against fire and explosion)

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

smoking.

(Exhaust/ventilator)

Exhaust/ventilator should be available.

(Safety treatments)

Avoid contact with skin.

Avoid contact with eyes.

# Safety Measures

Use only outdoors or in a well-ventilated area.

- Wear protective gloves, protective clothing or face protection.
- Wear eye protection/face protection.
- When using do not eat, drink or smoke.

# Any incompatibilities

See "10.Stability and Reactivity"

Advice on general occupational hygiene

Wash contaminated parts thoroughly after handling.

Contaminated work clothing should not be allowed out of the workplace.

Take off contaminated clothing and wash it before reuse.

# Storage

Conditions for safe storage

Keep container tightly closed.

Store in a cool, dry place. Do not store in direct sunlight.

Block out light.



Container and packaging materials for safe handling Glass Polyethylene

8. Exposure controls/personal protection
Control parameters
Exposure controls
Appropriate engineering controls
Do not use in areas without adequate ventilation.
Eye wash station should be available.
Washing facilities should be available.
Individual protection measures
Respiratory protection
Wear respiratory protection.
Hand protection
Wear protective gloves.
Eye protection
Wear eye/face protection.

# 9. Physical and Chemical Properties

Information on basic physical and chemical properties Physical state: Crystals to crystalline powder Color: Colorless to yellow Odor: Odorless Melting point/Freezing point: 218°C Boiling point or initial boiling point: (Anthracene)342°C Boiling range data is not available. Flammability (gases, liquids and solids) data is not available. Lower and upper explosion limit/flammability limit: Lower explosion limit: 0.6 vol % Flash point: (Anthracene)121°C Auto-ignition temperature: (Anthracene)538°C Decomposition temperature data is not available. pH data is not available. Kinematic viscosity data is not available. Solubility: Solubility in water: 0.00013 g/100 ml (20°C) n-Octanol/water partition coefficient: log Pow4.5 (calculated) Vapor pressure: 0.08 Pa (25°C) Density and/or relative density: 1.25 to 1.28 g/cm3 Relative vapor density (Air=1): 6.15 Particle characteristics data is not available.

10. Stability and Reactivity

Reactivity

Not available.

Chemical stability

Stable under normal storage/handling conditions.

Possibility of hazardous reactions

Dust explosion possible if in powder or granular form, mixed with air.

Decomposes on heating. Decomposes under the influence of strong oxidants. This produces



acrid, toxic fume. This generates fire and explosion hazard. (ICSC 0825) Conditions to avoid Contact with incompatible materials. Contact with fire source. Incompatible materials Strong oxidizing agents Hazardous decomposition products Carbon oxides

11. Toxicological Information Information on toxicological effects Acute toxicity data is not available. Irritant properties Skin corrosion/irritation data is not available. Serious eye damage/irritation [GHS Cat. Japan, base data] (Anthracene) human conjunctival injection (EU-RAR, 2007) Sensitization Skin sensitization [GHS Cat. Japan, base data] (Anthracene) cat. 1; MOE risk assessment vol.4, 2005 Mutagenic effects data is not available. Carcinogenicity [GHS Cat. Japan, base data] (Anthracene) cat.1B; (MHLW carcinogenicityity examination, 1998) (Anthracene) IARC-Gr.3 : Not Classifiable as a Human Carcinogen Reproductive toxicity data is not available. STOT STOT-single exposure [cat.3 (resp. irrit.)] [GHS Cat. Japan, base data] (Anthracene) respiratory tract irritation (EHC 202, 1998) STOT-repeated exposure data is not available. Aspiration hazard data is not available. Information on other hazards May cause lung disorders by massive inhalation of powdered substance. -e.g. fibrosis of lung tissue, cough, sputum, breath shortness, dyspnea, decline of lung function, interstitial lung disease, pneumothorax

12. Ecological Information

Ecotoxicity
Aquatic toxicity
Very toxic to aquatic life with long lasting effects
Hazardous to the aquatic environment (Acute)

[GHS Cat. Japan, base data]
(Anthracene)
Fish (bluegill) LEC50=0.00278mg/L/96hr (MOE Japan, risk assessment, vol.5, 2006)



Water solubility
(Anthracene)
0.00013 g/100 ml (20°C) (ICSC, 1999)
Persistence and degradability
(Anthracene)
BOD_Degradation : 1.9% (Registered chemicals data check & review, 1977)
Bioaccumulative potential
(Anthracene)
log Pow=4.5 (calculated) (ICSC, 1999)
Mobility in soil
Mobility in soil data is not available.
Other adverse effects
Ozone depleting chemical data is not available.

13. Disposal considerations

Description of waste residues and information on their safe handling and methods of disposal, including the disposal of any contaminated packaging Waste treatment methods Avoid release to the environment. Dispose of contents/container in accordance with local/national regulation.

## 14. Transport Information

UN No. or ID No.: 3077	
UN Proper Shipping Name :	
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.	
Class or division (Transport hazard class) : 9	
Packing group : III	
ERG GUIDE No.: 171	
Special provisions No.: 274; 331; 335; 375	
IMDG Code (International Maritime Dangerous Goods Regulations)	
UN No.: 3077	
Proper Shipping Name :	
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.	
Class or division : 9	
Packing group : III	
Special provisions No.: 274; 335; 966; 967; 969	
IATA Dangerous Goods Regulations	
UN No.: 3077	
Proper Shipping Name :	
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.	
Class or division : 9	
Hazard labels : Miscellaneous & Environmentally hazardous	
Packing group : III	
Special provisions No.: A97; A158; A179; A197; A215	
Environmental hazards	
MARPOL Annex III – Prevention of pollution by harmful substances	
Marine pollutants (yes/no) : yes	
MARPOL Annex V – Prevention of pollution by garbage discharge	
Carcinogenicity: cat.1, 1A, 1B	
Anthracene	
Hazardous to the aquatic environment - acute hazard: cat.1	
Anthracene	



Hazardous to the aquatic environment - long-term hazard: cat.1, 2 Anthracene

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-	15. Regulatory Information
	Safety, health and environmental regulations/legislation specific for the subs

Safety, health and environmental regulations/legislation specific for the substance or mixture Chemicals listed in TSCA Inventory

Anthracene

Other regulatory information

Ensure this material in compliance with federal requirements and ensure conformity to local regulations.

## 16. Other information

GHS classification and labelling

Eye Irrit. 2: H319 Causes serious eye irritation

Skin Sens. 1: H317 May cause an allergic skin reaction

Carc. 1B: H350 May cause cancer

STOT SE 3: H335 May cause respiratory irritation

Aquatic Chronic 1: H410 Very toxic to aquatic life with long lasting effects

Reference Book

Globally Harmonized System of classification and labelling of chemicals, UN Recommendations on the TRANSPORT OF DANGEROUS GOODS 21th edit., 2019 UN IMDG Code, 2018 Edition (Incorporating Amendment 39–18) IATA Dangerous Goods Regulations (62nd Edition) 2021 2020 EMERGENCY RESPONSE GUIDEBOOK (US DOT) 2021 TLVs and BEIs. (ACGIH) Supplier's data/information

General Disclaimer

This data sheet was created based on the information we currently have and may be revised according to new information. In addition, the precautions apply only to normal handling, and in the case of special handling, please make adequate countermeasure to maintain your safety.

The data given here is based on current knowledge and experience. The purpose of this Safety Data Sheet is to describe the products in terms of their safety requirements. The data does not signify any warranty with regard to the products' properties.

The GHS classification data given here is based on current Japan official data (NITE published in 2019).